# ABSTRACT

The object of the present invention is to provide a diesel engine control system and control method capable of conducting accurate fuel injection unaffected by variations in injector performance caused by differences among individual injectors or change with aging. The invention provides a diesel engine control system comprising an injector for directly injecting fuel into a combustion chamber of a diesel engine, injection quantity controlling means for controlling fuel injection quantity by varying a period of electric current supply to the injector, estimating means for estimating that an electric current supply period when a prescribed (stable) combustion state is obtained is the current supply period for injecting the amount of fuel required for the prescribed combustion state, and control data correcting means for correcting control data of the injection quantity controlling means based on the estimated current supply period.